enormous Lead of the Cachalot **and the very** fairly-developed skull **of** ill*- " Pygmy Sperm **Whal**." **Both,** however, **furnish spermaceti,** and In various **c:*teulogieul** detail?, **come** near together. On **the whole we incline** towards separating **the Cachalot? from the** Zi|>Mokl% and *shall* **t lie re fore commence with the former as** btfing in **some** r^peets the more primitive **meiub&rs** of **the** family **Physfteridae.**

Sub-Fam. 1. Physeterinae.-—This sub-family may be tlras defined:—-Teeth *in* lower jaw numerous. Xo distinct lachrymal bone. Slonuicli **with** only **u>ur eompiirtineiits ('as to *J£&gifi"j.***

Of tills **an]»-family the l»et*t-kuown** geiiiis Is ***I'fnjseftr;*** **including the Sperm Whale** or **Cachalot. Of** other **reputed** species we shall **speak** later. **The geim,* is ehurat'U*risfed in** the first **place** by its large siz«— HK **much** as 82 **feet** of length have been assigned **to** *'utc<ruc€'j'&<Mif«;* **but** Sir **"William Flower thought that 60 feet might** i»e **a** letter approximation **to the** of :he **Cachalot.** The head is **enormous,** a third of the **lei.gtSu** oi* tLc l»ody, **itud terminates in fi massive and** ^luntis?h ^iiuiit. Tiiis i^, however, not so **abruptly truncated** as is often r-]»rc^ei*ted in figures. **According to** Messrs. **I*ouchet ami Chitves/ it slopes** ibrward two **metres** beyond tlie end of the **lower** jaw ; tlie mouth is thus ventral and almost shark-like in poaitloe, as is **the case also with** the Pygmy Sperm **Whale, to** *...- considered later. In connexion **with this** peculiar position of **the mouth,** ifc has been asserted—Mr. 3T. T. Bullen figures it'[2] **that the Sperm Whale** turns over upon its back to bite. The blow-bole is single, and shaped like the sound-bole of a violin; it lies upon one si.de.> and is not **median** in position. The throat is grooved as in the ZIpMoids by two grooves. The dorsal fin is represented by a whole series of **lowish humps,** decreasing in elevation **from before backwards.** The pectoral fins are not large relatively speaking. The great square head is not **occupied** entirely by the skull | the cavity lying above, which is of course traversed by the tube ending in the blow-hole, is filled with the spermaceti, which is fluid fat during the life of the animal.

Spermaceti also occurs in other "Whales ; and that of *Ift/jperoodon,* whence it lias been extracted for commercial

purposes, is said to offer no differences of importance from the spermaceti of the

[1] *7<wr», *de VAnai** xxvi. 1890,,, p. *270,
* *Tfte OrniM &/Ihe,* Cbdtolo^ London, 19QD*